



(19)

(11) Publication number:

10

Generated Document.

PATENT ABSTRACTS OF JAPAN(21) Application number: **08336313**(51) Intl. Cl.: **B01D 63/02**(22) Application date: **02.12.96**

<p>(30) Priority:</p> <p>(43) Date of application publication: 16.06.98</p> <p>(84) Designated contracting states:</p>	<p>(71) Applicant: NOK CORP</p> <p>(72) Inventor: FUJII YOSHIHISA</p> <p>(74) Representative:</p>
---	---

(54) HOLLOW-FIBER MEMBRANE MODULE

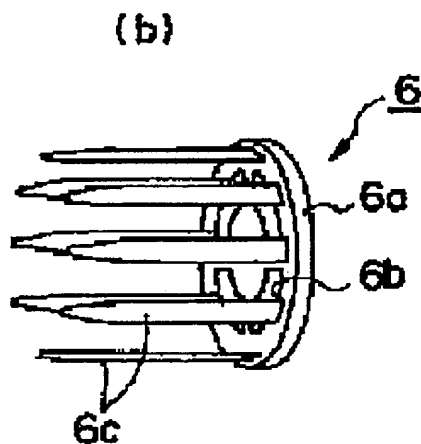
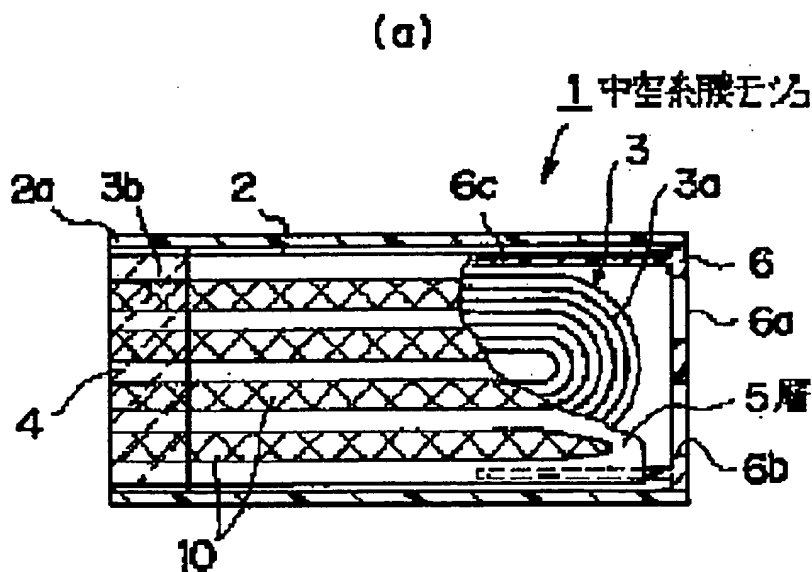
(57) Abstract:

PROBLEM TO BE SOLVED: To suppress the deformation of a layered air vent during filtration in a hollow-fiber membrane module formed by packing many hollow-fiber membranes with a sheet-shaped air vent means wound on them in a cylindrical case by providing a holding means to position the air vent means close to the inner periphery of the case.

SOLUTION: A hollow-fiber membrane module 1 is formed by packing the fiber bundle 3 of a hollow-fiber membrane 3a in a cylindrical case 2, and a potting part 4 is provided to seal a gap between the end 3b of the bundle 3 and the inner periphery of one end 2a of the case 2. Meanwhile, a layered air vent 5 is previously wound on the periphery of the bundle 3, then many communicating holes 10 are formed by the potting, hence the air staying

inside is discharged along with the membrane-permeated fluid, and a decrease in the membrane permeability is prevented. Further, a cap member 6 obtained by providing plural projecting members 6c to the periphery of a bottom plate 6a is inserted into an opening on the opposite side of the potting part 4 as a holding part to be positioned between the bundle 3 and the inner periphery of the case 2.

COPYRIGHT: (C)1998,JPO



BEST AVAILABLE COPY